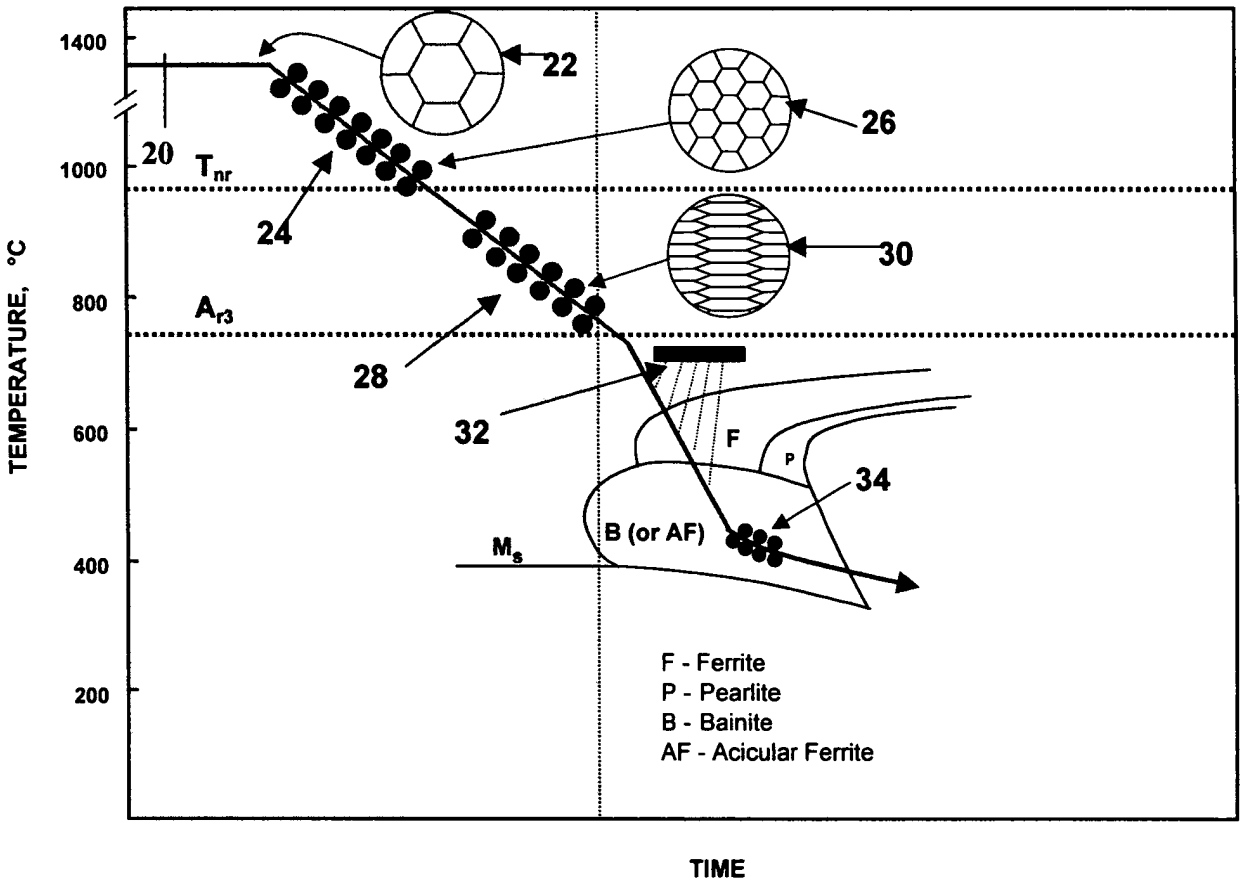

1400
1000
800
600
400
200
TEMPERATURE, °C
TIME
20
T_{nr}
A_{r3}
M_s
22
24
26
28
30
32
34
F
P
B (or AF)
F - Ferrite
P - Pearlite
B - Bainite
AF - Acicular Ferrite

Figure 1

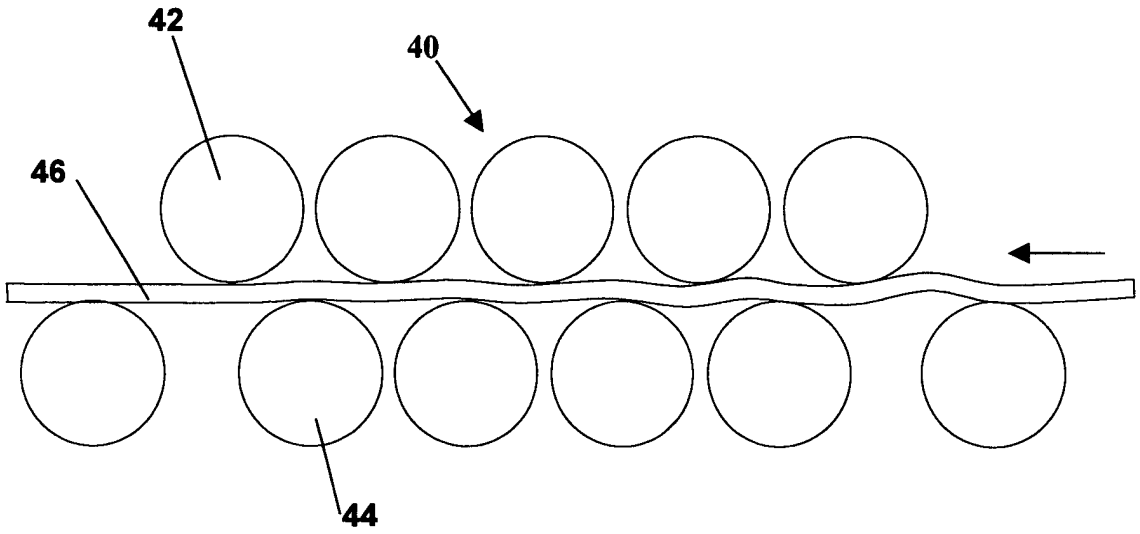


Figure 2

Figure 3

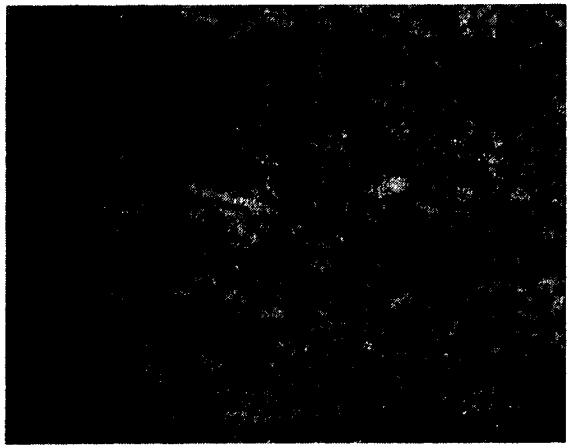


Figure 4

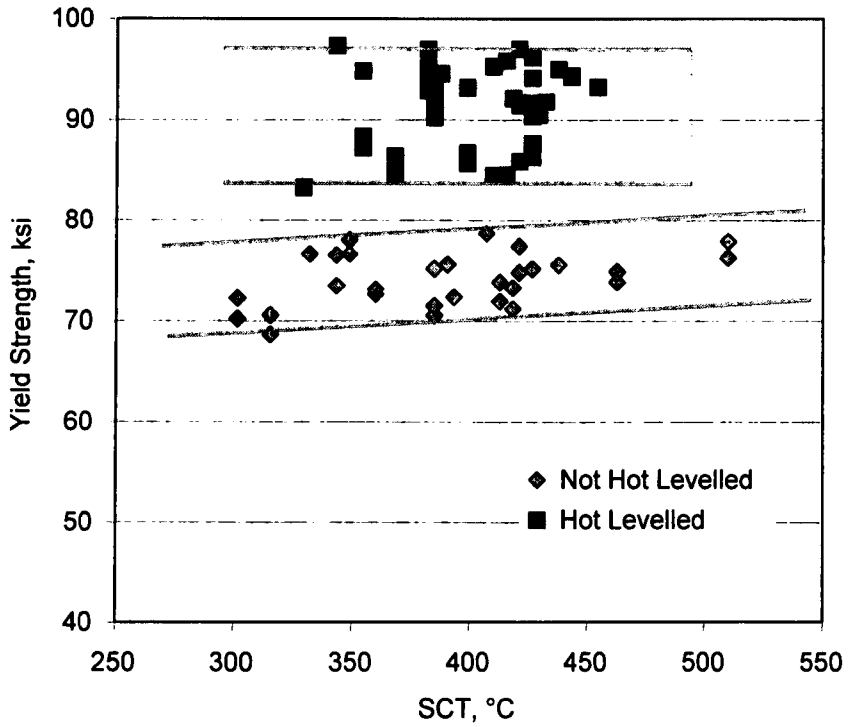


Figure 5

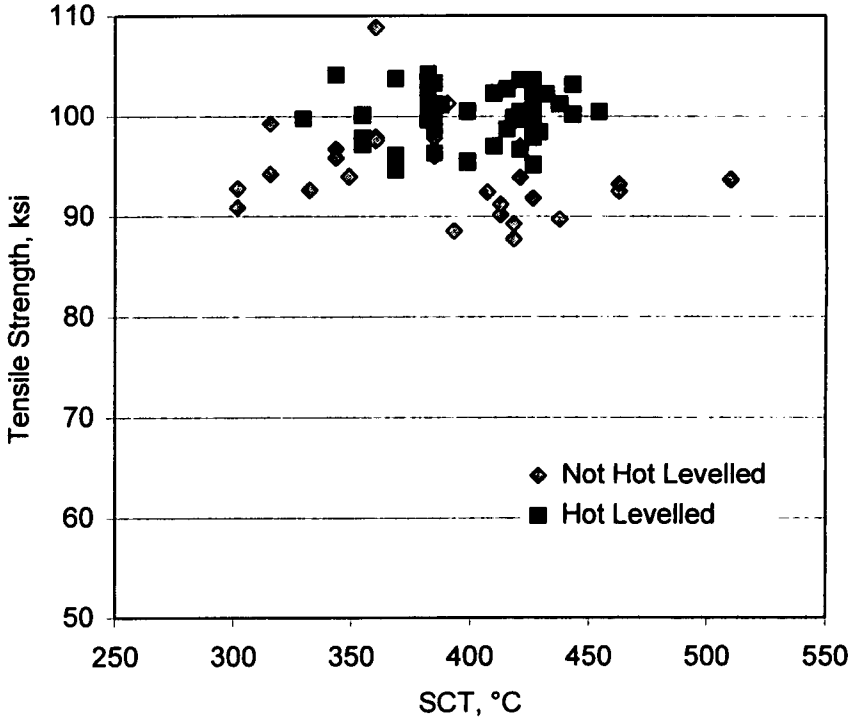


Figure 6

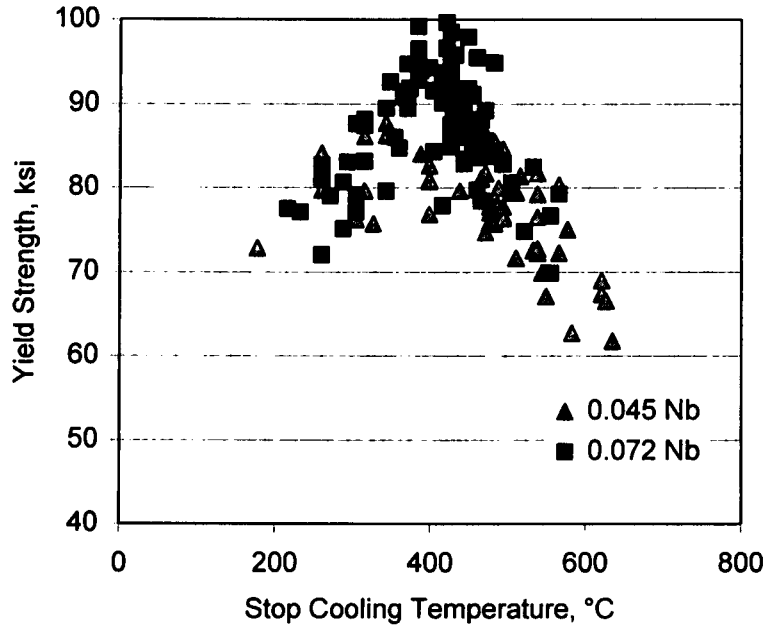


Figure 7

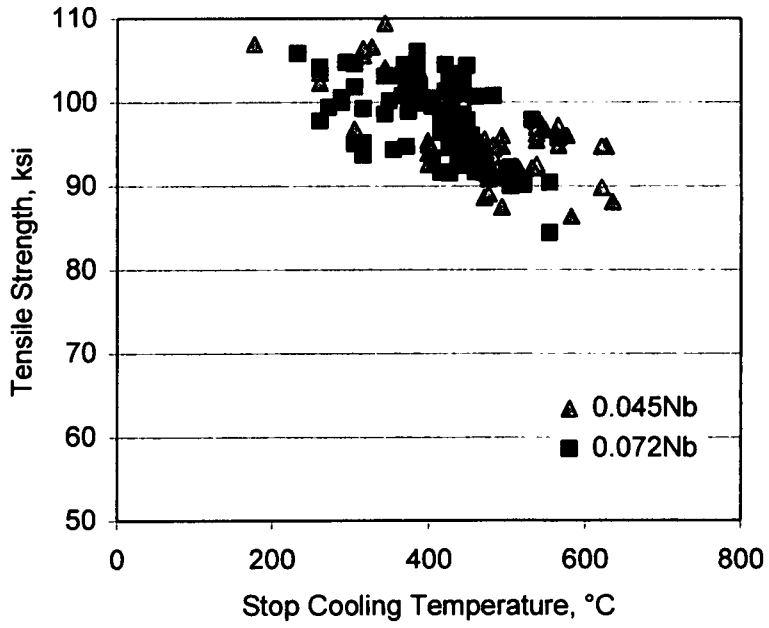


Figure 8

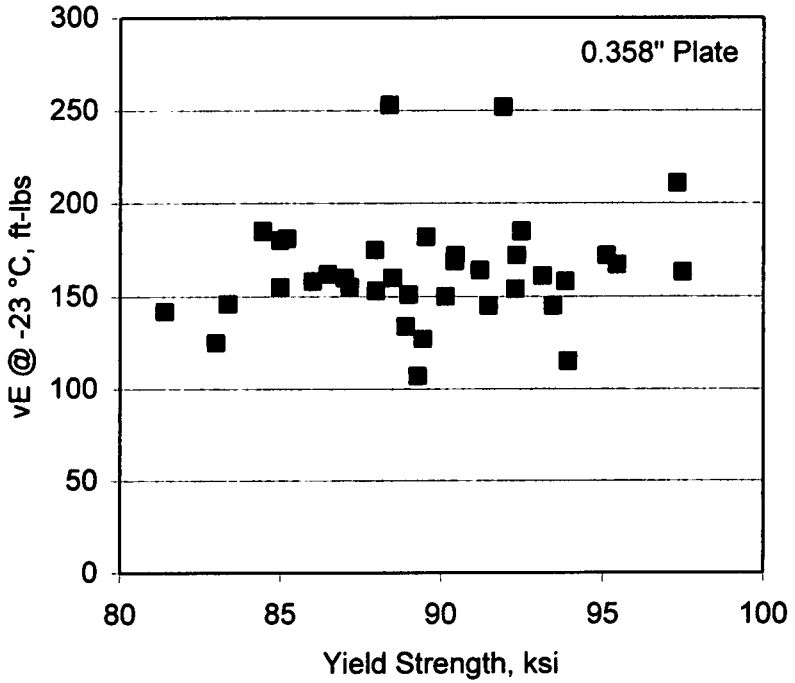
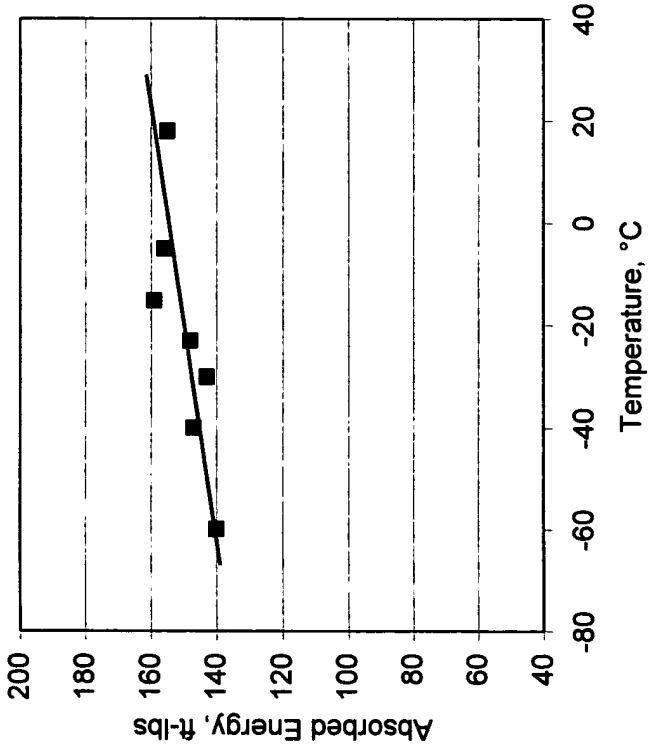

0.358" Plate
vE @ -23 °C, ft-lbs
300
250
200
150
100
50
0
80
85
90
95
100
Yield Strength, ksi

Figure 9


Absorbed Energy, ft-lbs
200
180
160
140
120
100
80
60
40
-80
-60
-40
-20
0
20
40
Temperature, °C

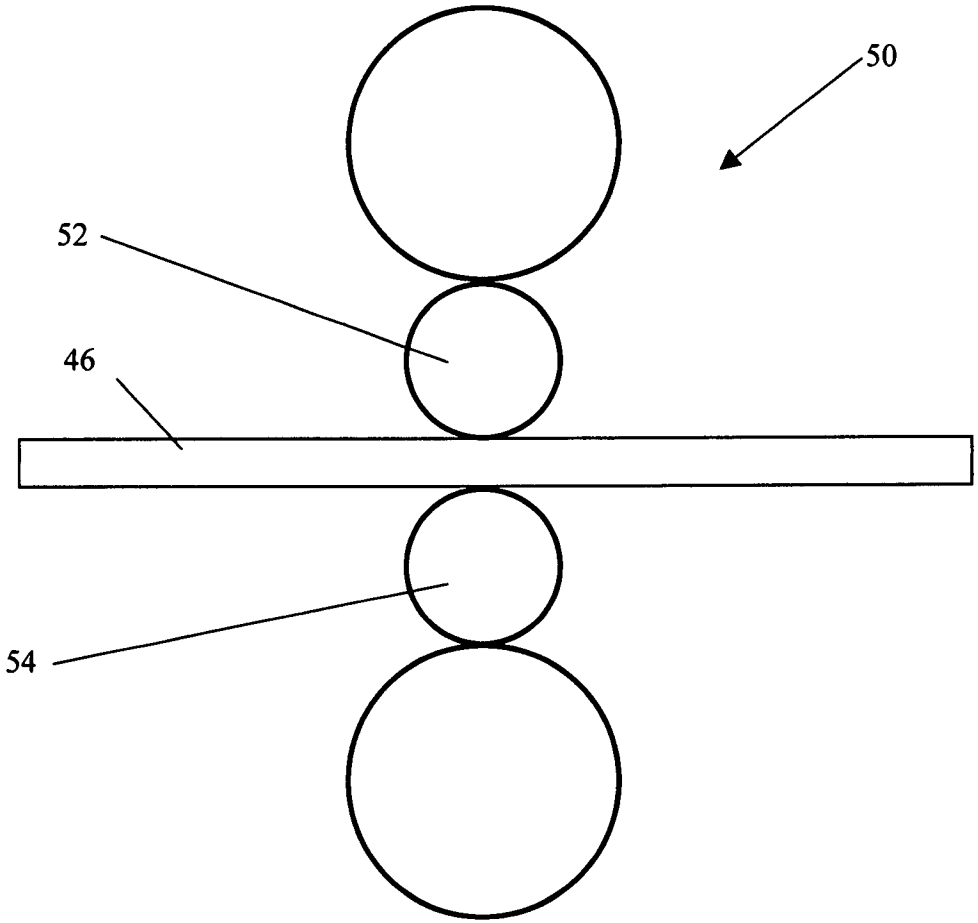


Figure 10